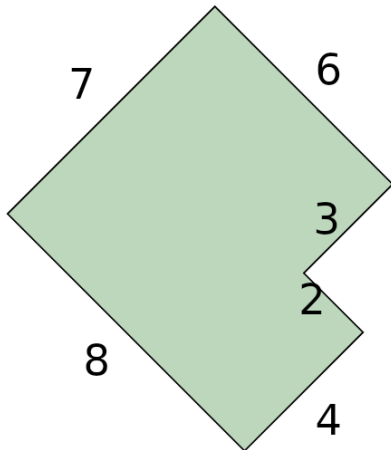


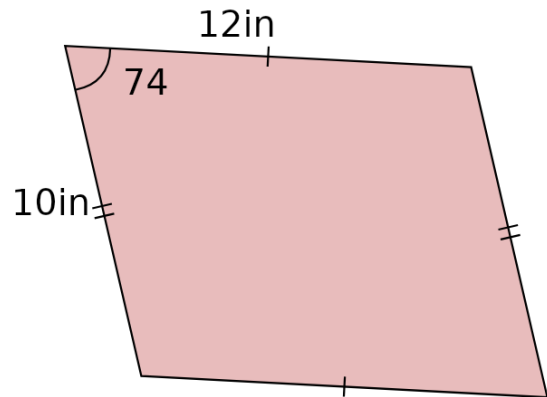
## Measurement

1 Find the area of the shape



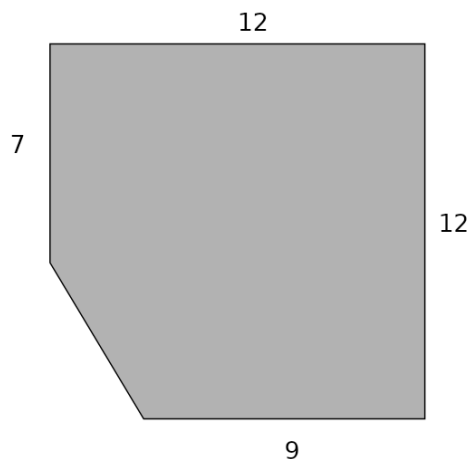
|         |         |         |
|---------|---------|---------|
| A<br>30 | B<br>56 | C<br>88 |
| D<br>50 | E<br>15 | F<br>99 |

2 Find the area of the parallelogram

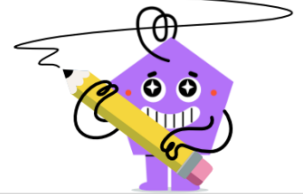


|                        |                         |
|------------------------|-------------------------|
| A<br>$182\text{in}^2$  | B<br>$22\text{in}^2$    |
| C<br>$33.1\text{in}^2$ | D<br>$115.4\text{in}^2$ |
| E<br>$120\text{in}^2$  |                         |

3 Find the area of the shape

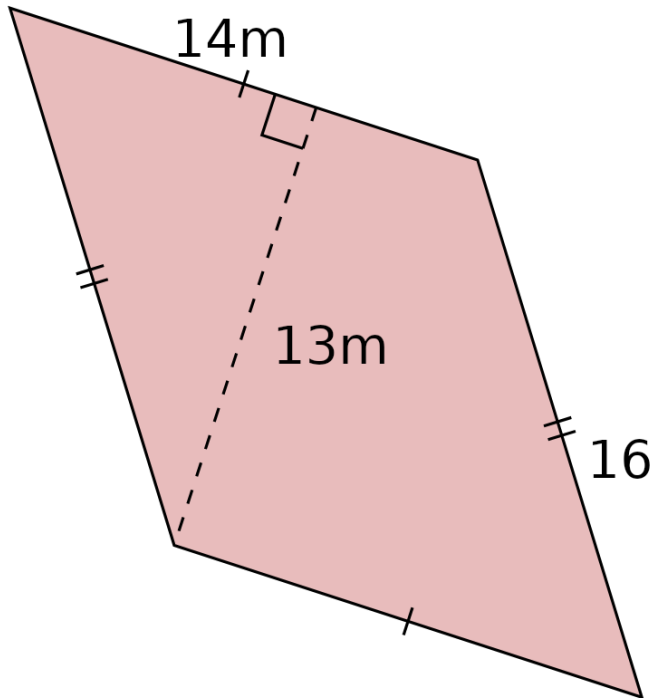


|            |          |          |
|------------|----------|----------|
| A<br>136.5 | B<br>129 | C<br>114 |
| D<br>48    | E<br>195 | F<br>159 |



## Measurement

4 Find the area of the parallelogram



A

$$182\text{m}^2$$

B

$$306\text{m}^2$$

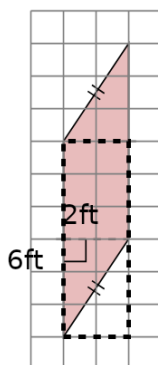
C

$$54\text{m}^2$$

D

$$27\text{m}^2$$

5 Find the area of the parallelogram by simplifying it to the rectangle shown



A  $42\text{ft}^2$

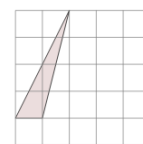
B  $16\text{ft}^2$

C  $12\text{ft}^2$

D  $4\text{ft}^2$

E  $8\text{ft}^2$

6 Find the area of the triangle on this grid of 1x1 squares



A 2

B 3

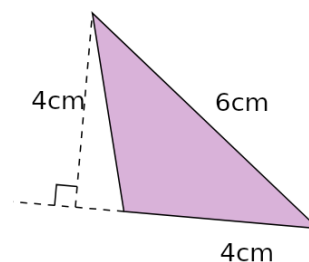
C 5

D 6

E 0.5

F 1.5

7 Find the area of the triangle

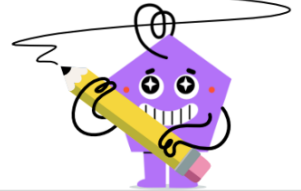


A  $16\text{cm}^2$

B  $8\text{cm}^2$

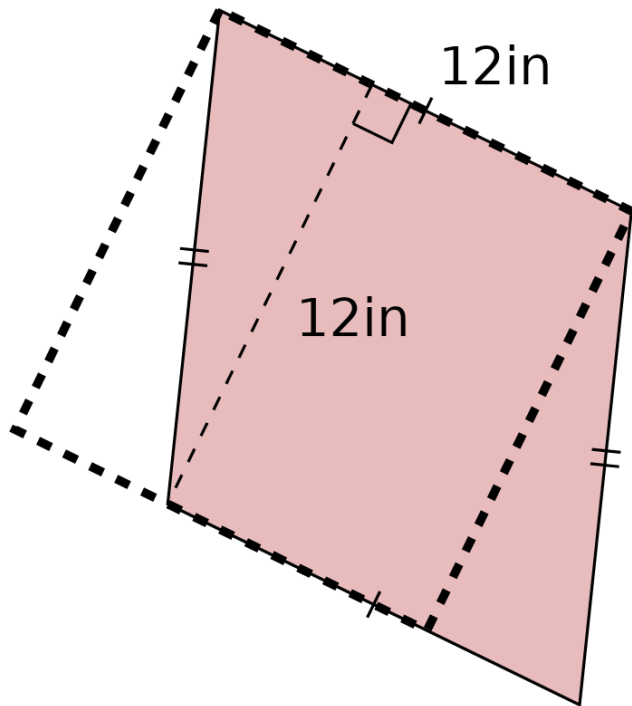
C  $32\text{cm}^2$

D  $40\text{cm}^2$



## Measurement

8 What is the area of the equivalent rectangle?



A

$$256\text{in}^2$$

B

$$144\text{in}^2$$

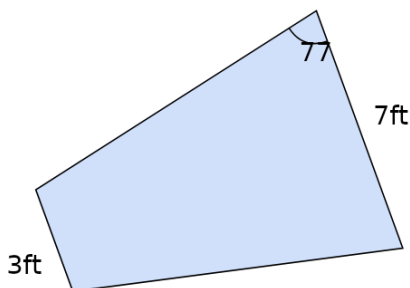
C

$$24\text{in}^2$$

D

$$169\text{in}^2$$

9 Find the area of the trapezoid by multiplying the height by the average length



A

$$105\text{ft}^2$$

B

$$45\text{ft}^2$$

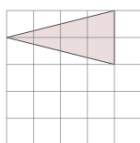
C

$$21\text{ft}^2$$

D

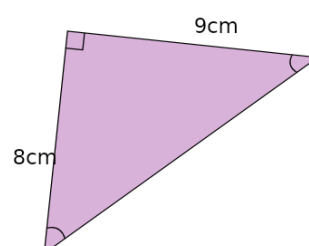
$$85.9\text{ft}^2$$

10 Find the area of the triangle on this grid of 1x1 squares



|   |   |   |     |   |   |
|---|---|---|-----|---|---|
| A | 5 | B | 4.5 | C | 1 |
| D | 4 | E | 2.5 | F | 8 |

11 Find the area of the triangle



A

$$40.5\text{cm}^2$$

B

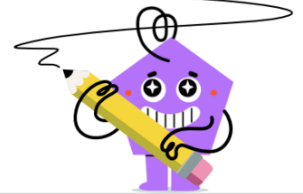
$$45\text{cm}^2$$

C

$$2.3\text{cm}^2$$

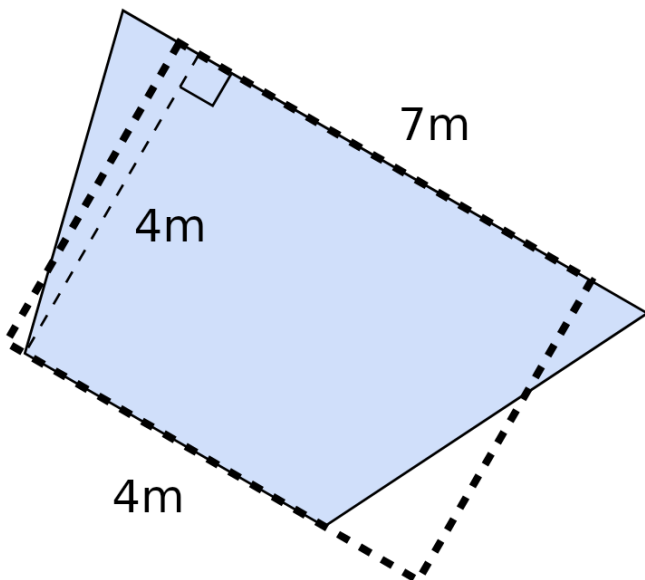
D

$$36\text{cm}^2$$



## Measurement

**12** What is the area of the equivalent rectangle?



A

$$62.2\text{m}^2$$

B

$$56\text{m}^2$$

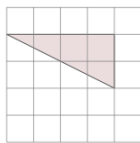
C

$$22\text{m}^2$$

D

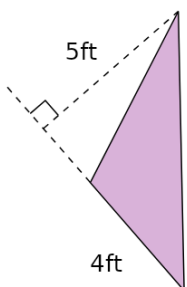
$$16\text{m}^2$$

**13** Find the area of the triangle on this grid of 1x1 squares



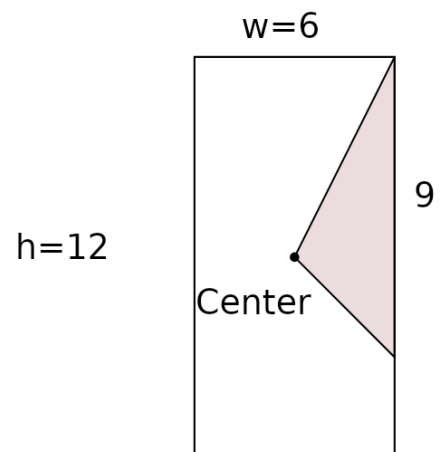
|   |     |   |   |   |     |
|---|-----|---|---|---|-----|
| A | 5.5 | B | 7 | C | 6.5 |
| D | 3   | E | 4 | F | 1   |

**15** Find the area of the triangle

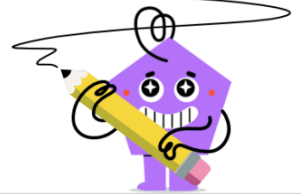


|   |                 |
|---|-----------------|
| A | $18\text{ft}^2$ |
| B | $40\text{ft}^2$ |
| C | $72\text{ft}^2$ |
| D | $10\text{ft}^2$ |

**14** Find the area of the shaded triangle section

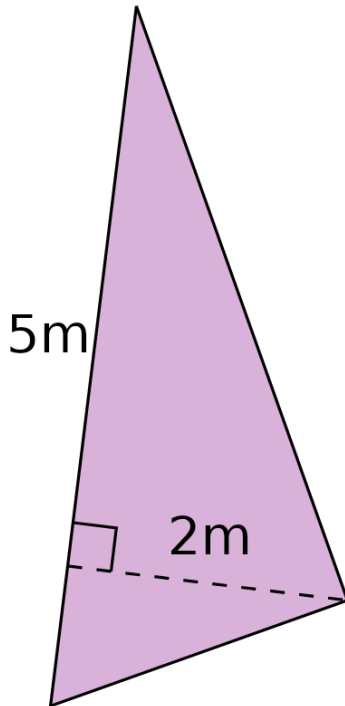


|   |      |   |      |   |     |
|---|------|---|------|---|-----|
| A | 15.5 | B | 13.5 | C | 54  |
| D | 27   | E | 36   | F | 4.5 |



## Measurement

**16** Find the area of the triangle



A

$$10\text{m}^2$$

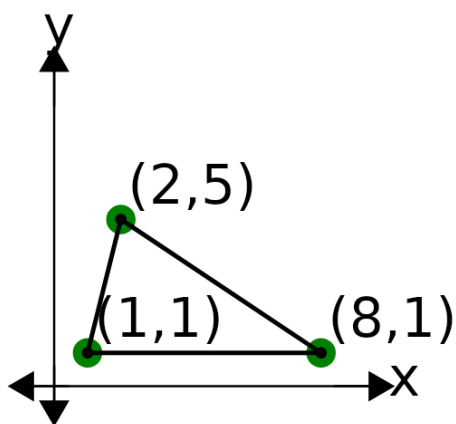
B

$$5\text{m}^2$$

C

$$14\text{m}^2$$

**17** Find the area of the triangle formed by these coordinates



A

$$14$$

B

$$8$$

C

$$19$$

D

$$7$$

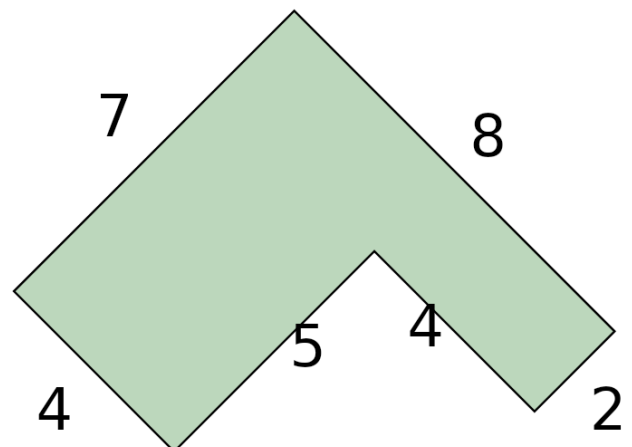
E

$$4$$

F

$$17$$

**18** Find the perimeter



A

$$56$$

B

$$112$$

C

$$14$$

D

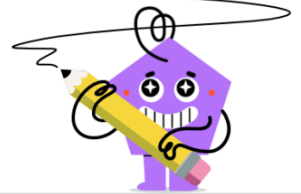
$$15$$

E

$$12$$

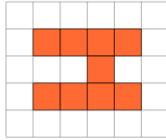
F

$$30$$



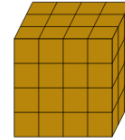
## Measurement

**19** Find the perimeter of the shape on this grid of 1x1 squares



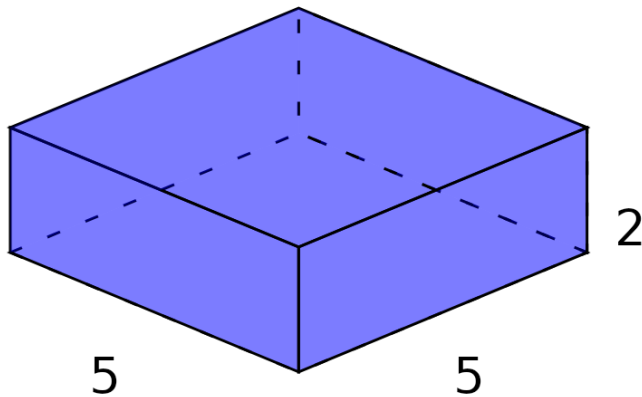
|   |    |   |    |   |    |
|---|----|---|----|---|----|
| A | 16 | B | 12 | C | 24 |
| D | 34 | E | 2  | F | 20 |

**20** What is the surface area of the blocks in this 4x3x4 Rectangular Prism?



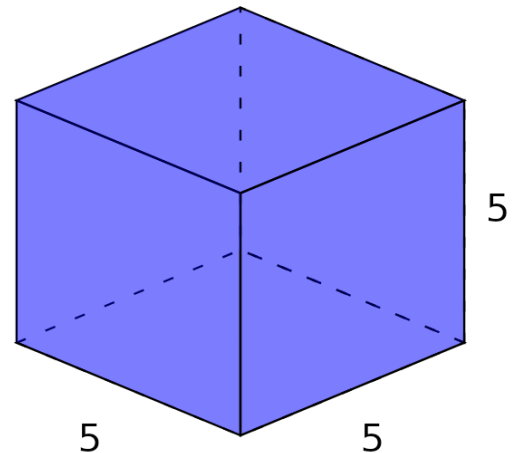
|   |    |   |     |   |    |
|---|----|---|-----|---|----|
| A | 96 | B | 144 | C | 64 |
| D | 32 | E | 56  | F | 80 |

**21** What is the surface area of this Rectangular Prism?



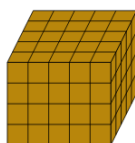
|   |     |   |    |   |    |
|---|-----|---|----|---|----|
| A | 171 | B | 90 | C | 81 |
| D | 27  | E | 63 | F | 36 |

**22** What is the volume of this Cube?



|   |     |   |     |   |     |
|---|-----|---|-----|---|-----|
| A | 77  | B | 185 | C | 221 |
| D | 233 | E | 161 | F | 125 |

**23** How many blocks make up this 5x5x4 Rectangular Prism?

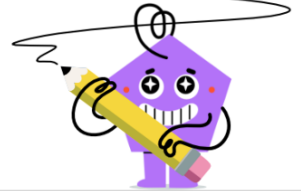


|   |    |   |     |   |     |
|---|----|---|-----|---|-----|
| A | 50 | B | 80  | C | 150 |
| D | 20 | E | 100 | F | 70  |

**24** Convert this value to decaliters

**920 l**

|   |            |   |           |
|---|------------|---|-----------|
| A | 9,200 dal  | B | 92 dal    |
| C | 9.2 dal    | D | 0.092 dal |
| E | 92,000 dal | F | 0.92 dal  |



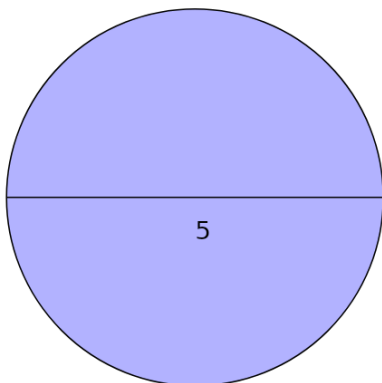
## Measurement

**25** Convert this value to decimeters

**76 mm**

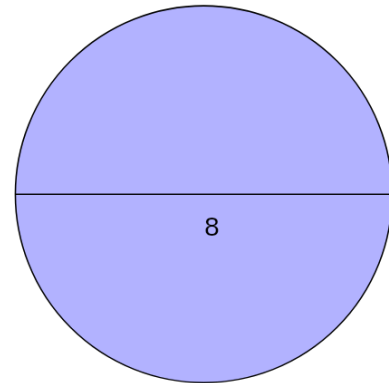
|   |         |   |            |
|---|---------|---|------------|
| A | 7.6 dm  | B | 0.076 dm   |
| C | 0.76 dm | D | 76 dm      |
| E | 760 dm  | F | 0.00076 dm |

**27** Find the circumference without using a calculator. Remember that  $\pi$  is just a bit more than 3.



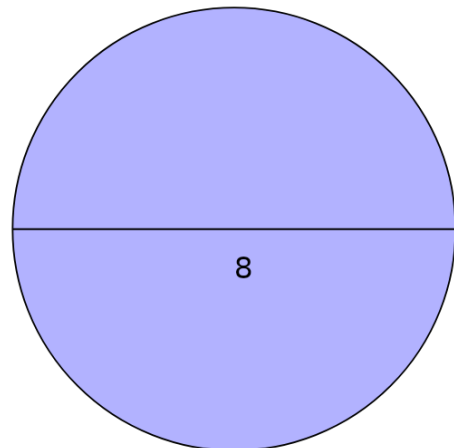
|   |       |   |       |   |       |
|---|-------|---|-------|---|-------|
| A | 19.63 | B | 5     | C | 15.71 |
| D | 28.27 | E | 34.56 | F | 12.5  |

**26** Find the circumference without using a calculator. Remember that  $\pi$  is just a bit more than 3.

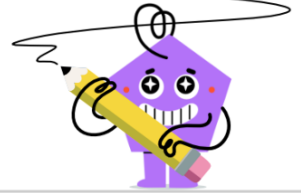


|   |       |   |       |   |       |
|---|-------|---|-------|---|-------|
| A | 37.7  | B | 8     | C | 32    |
| D | 12.57 | E | 25.13 | F | 50.27 |

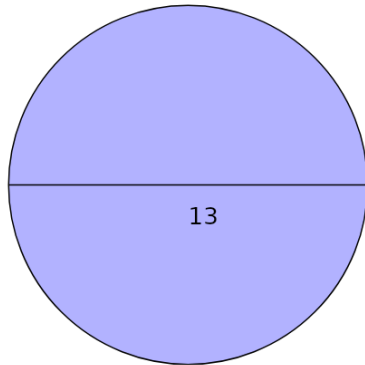
**28** Find the circumference of the circle



|   |       |   |      |   |       |
|---|-------|---|------|---|-------|
| A | 43.98 | B | 37.7 | C | 32    |
| D | 50.27 | E | 8    | F | 25.13 |

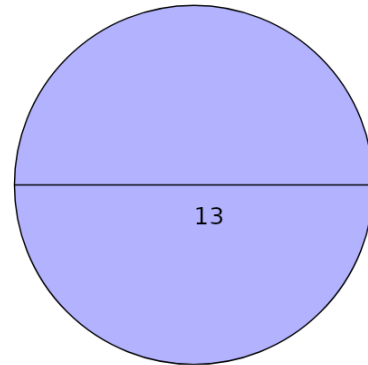
**Measurement**

**29** Find the circumference of the circle as a function of  $\pi$



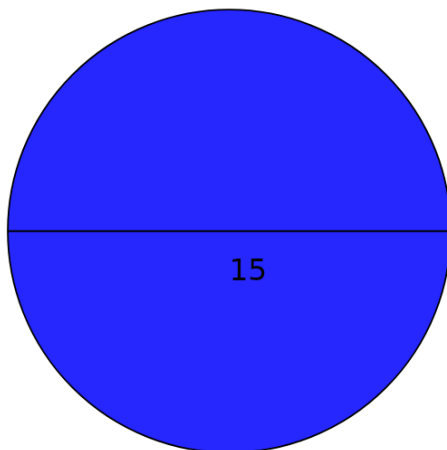
|   |         |   |         |
|---|---------|---|---------|
| A | $4\pi$  | B | $21\pi$ |
| C | $7\pi$  | D | $5\pi$  |
| E | $13\pi$ | F | $19\pi$ |

**30** Find the circumference of the circle as a function of  $\pi$



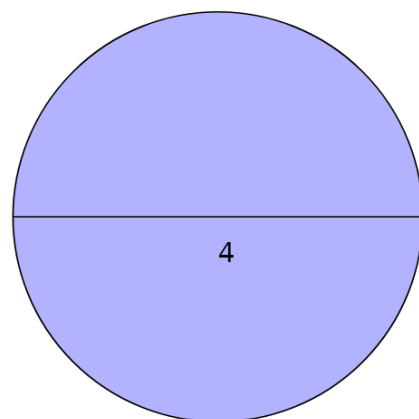
|   |         |   |         |
|---|---------|---|---------|
| A | $17\pi$ | B | $9\pi$  |
| C | $7\pi$  | D | $10\pi$ |
| E | $13\pi$ | F | $16\pi$ |

**31** Find the circumference of the circle

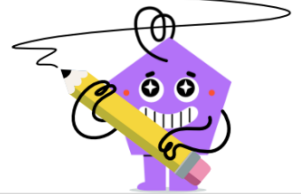


|   |       |   |       |   |       |
|---|-------|---|-------|---|-------|
| A | 53.41 | B | 15    | C | 23.56 |
| D | 112.5 | E | 65.97 | F | 47.12 |

**32** Find the circumference of the circle using the formula  $C = \pi d$  where  $d$  is the diameter

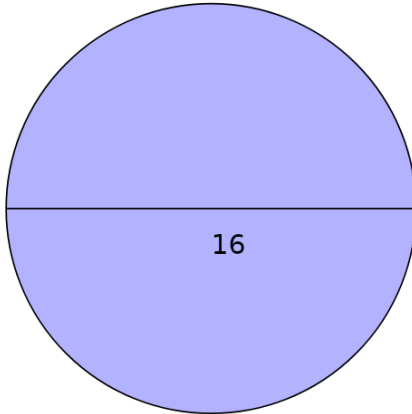


|   |       |   |       |   |   |
|---|-------|---|-------|---|---|
| A | 6.28  | B | 8     | C | 4 |
| D | 25.13 | E | 12.57 |   |   |



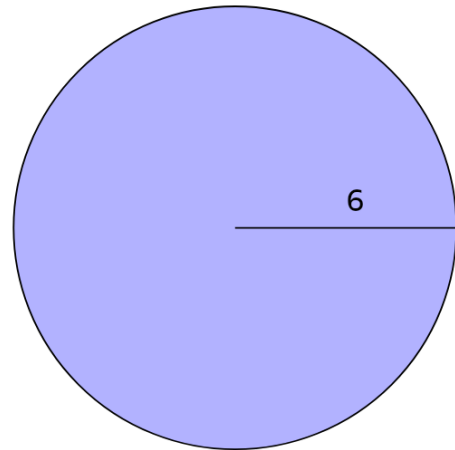
## Measurement

- 33** Find the circumference of the circle using the formula  $C = \pi d$  where  $d$  is the diameter



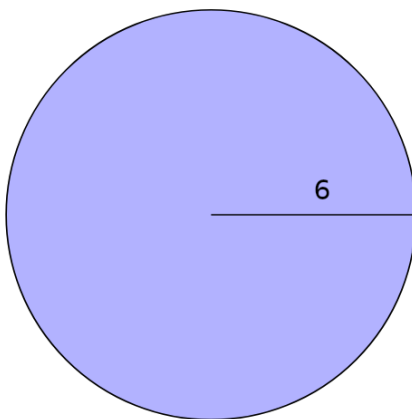
|            |             |            |
|------------|-------------|------------|
| A<br>69.12 | B<br>50.27  | C<br>128   |
| D<br>62.83 | E<br>201.06 | F<br>25.13 |

- 34** Find the circumference of the circle



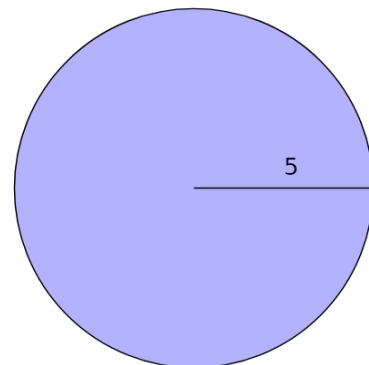
|            |            |            |
|------------|------------|------------|
| A<br>56.55 | B<br>113.1 | C<br>37.7  |
| D<br>12    | E<br>62.83 | F<br>18.85 |

- 35** Find the circumference of the circle using the formula  $C = 2\pi r$

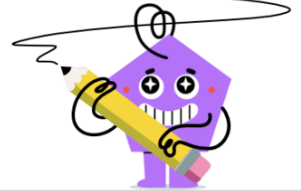


|            |            |            |
|------------|------------|------------|
| A<br>62.83 | B<br>12    | C<br>37.7  |
| D<br>18.85 | E<br>113.1 | F<br>56.55 |

- 36** Find the circumference of the circle as a function of  $\pi$

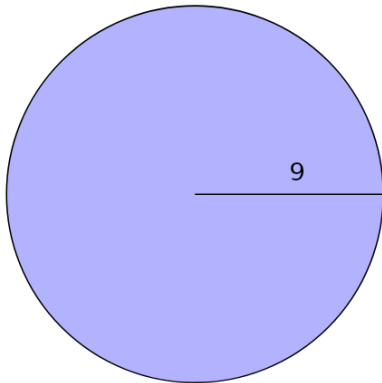


|              |              |
|--------------|--------------|
| A<br>$10\pi$ | B<br>$19\pi$ |
| C<br>$6\pi$  | D<br>$1\pi$  |
| E<br>$16\pi$ | F<br>$4\pi$  |



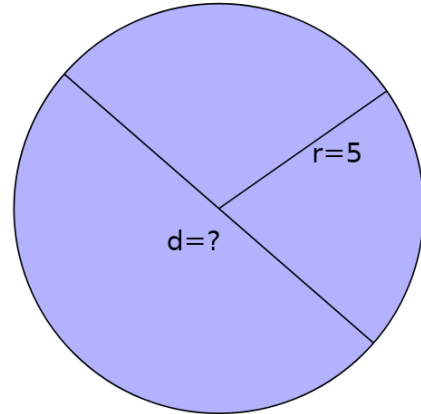
## Measurement

- 37** Find the circumference without using a calculator. Remember that  $\pi$  is just a bit more than 3.



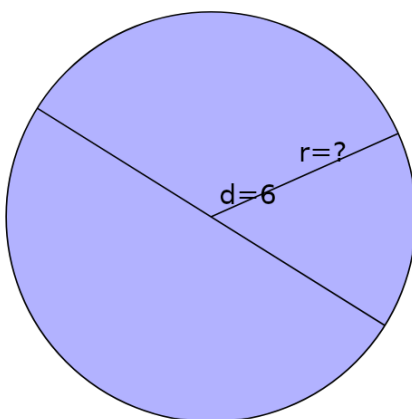
|   |       |   |        |   |       |
|---|-------|---|--------|---|-------|
| A | 56.55 | B | 254.47 | C | 18    |
| D | 75.4  | E | 28.27  | F | 62.83 |

- 38** Find the diameter of the circle that has the given radius



|   |   |   |    |   |    |
|---|---|---|----|---|----|
| A | 7 | B | 5  | C | 9  |
| D | 6 | E | 11 | F | 10 |

- 39** Find the radius of the circle that has the given diameter



|   |   |   |   |   |   |
|---|---|---|---|---|---|
| A | 5 | B | 4 | C | 1 |
| D | 2 | E | 3 |   |   |